

NOTE:
No houses or water wells
are within 200'.

7.370' LATITUDE 39°05'00"

LONGITUDE 78°47'30"

14,526'

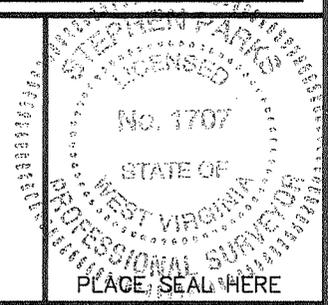
NOTE:
This map is for well location
only and does not represent
a complete property survey.

Coordinates Well No. 12454
WV-N Nad83 U.S. Feet
N 198,717.08
E 2,162,389.05

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF
ACCURACY 1 in 200
PROVEN SOURCE OF
ELEVATION _____
GPS CP No. 27 Elevation 1761.86'

I THE UNDERSIGNED, HEREBY CERTIFY THAT
THIS PLAT IS CORRECT TO THE BEST OF MY
KNOWLEDGE AND BELIEF AND SHOWS ALL THE
INFORMATION REQUIRED BY LAW AND THE
REGULATIONS ISSUED AND PRESCRIBED BY
THE DIVISION OF ENVIRONMENTAL PROTECTION
(SIGNED) Stephen Parks
R.P.E. 8982 L.L.S. 1707



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



DATE Oct. 2 20 04
OPERATOR'S WELL NO. 12454
API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1772.39' WATER SHED Camp Branch of Parker Hollow Run
DISTRICT Lost River COUNTY Hardy
QUADRANGLE Needmore

SURFACE OWNER Michael Wilkins et ux ACREAGE 27.34
OIL & GAS ROYALTY OWNER Columbia Gas Transmission LEASE ACP 236
LEASE NO. 58618

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE ___ PLUG OFF OLD FORMATION ___ FORMATE NEW
FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Oriskany ESTIMATED DEPTH 650'
WELL OPERATOR Columbia Gas Transmission Corp. DESIGNATED AGENT F. ul Amick
ADDRESS P.O. Box 1273 ADDRESS P.O. Box 1273
Charleston, WV 25325-1273 Charleston, WV 25325-1273

DEC 23 2005

(Lost River - 328) 8-0

FORM WW-6

HARDY COUNTY NAME PERMIT 0030

RECEIVED
Office of Oil & Gas

DEC 30 2009

WV Department of
Environmental Protection

WR-35
Rev (5-01)

DATE: 3/19/07
API #: 47-031-00030 H

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Michael Wilkins Operator Well No.: 12454

LOCATION: Elevation: 1765 ft Quadrangle: Needmore

District: Lost River County: Hardy
Latitude: 14.545 Feet South of 39 Deg. 05 Min. 00 Sec.
Longitude 7.238 Feet West of 78 Deg. 47 Min. 30 Sec.

Company: Columbia Gas Transmission Corp

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 1700 MacCorkle Ave SE Charleston, WV 25325-1273	24" 94# Gr. B-35	40	36	none - sanded in
Agent: Paul Amick	20" 59# Gr. B-35	100	86	150 sks
Inspector: Bill Hatfield / Craig Duckworth	13-3/8" 48# H-40	579	560	550 sks
Date Permit Issued: 12/20/05				
Date Well Work Commenced: 4/5/06	9-5/8" 40# J-55	2006	1980	600 sks
Date Well Work Completed: 1/10/07				
Verbal Plugging:	7" 23# N-80	6542	6515	425 sks
Date Permission granted on: not applicable				
Rotary X Cable Rig	2-3/8" 4.7# J-55	6502	6502	none
Total Depth (feet): 6929				
Fresh Water Depth (ft.): 306, 480,				
Salt Water Depth (ft.): 1400				
Is coal being mined in area (N/Y)? no				
Coal Depths (ft.): _____ ft				

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OPEN FLOW DATA

WV Department of
Environmental Protection

Producing formation Oriskany Sand Pay zone depth (ft) 6538 - 6870
Gas: Initial open flow 1,000 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1,000 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 90 Days
Static rock Pressure 1300 psig (surface pressure) after 24 Hours

Second Producing formation not applicable Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

By: James E. Amos Senior Storage Engineer - Columbia Gas Transmission Corp
Date: 3/19/07

DEC 18 2009

Well drilled to Oriskany Sandstone for underground natural gas storage.

<u>Formation Record</u>	<u>Top (MD ft)</u>	<u>Bottom (MD ft)</u>
Upper Marcellus	6128	6156
Purcell	6156	6296
Lower Marcellus	6296	6426
Onondaga	6426	6440
Needmore	6440	6538
Oriskany	6538	6870
Helderberg	6870	6929
TD		6929

Wellbore Telemetry (NAD 27 SPC WV-North Zone)

Surface: N/S = 198,670 ft E/W = 2,193,766 ft
 Final Depth: N/S = 198,830 ft E/W = 2,194,058 ft
 MD = 6929 ft TVD = 6797 ft

* Refer to revised survey plat and Schlumberger survey data report.

Perforations: none
 Stimulation: Fractured
 4,000 gals 15% HCl acid
 807 bbls fluid
 255 MSCF N2
 51,800 lbs sand
 Avg BH rate: 30 BPM
 ATP: 3300 psig

Electric Logs Ran: 7/18/06 GR-Density-CNL-Induction
 7/18/06 Sonic-FMI
 7/21/06 GR-Segmented Bond Log
 7/31/06 GR-Density-CNL-Induction
 7/31/06 Sonic-FMI